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INTERNATIONAL SEARCH REPORT

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(PCT Article 18 and Rules 43 and 44)

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Applicant's or agent's file reference	FOR FURTHER		000 Form POT/IO 4 1000	
Driesen 5-3 PCT	ACTION	as wel	see Form PCT/ISA/220 I as, where applicable, item 5 below.	
International application No.	International filing date (day/mont	h/year)	(Earliest) Priority Date (day/month/year)	
PCT/US2004/021027	30/06/2004		30/06/2003	
Applicant	 			
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AGERE SYSTEMS INC.				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Sea Insmitted to the International Bureat	rching Autl	nority and is transmitted to the applicant	
This International Search Report consists	of a total of she	ets.		
X It is also accompanied by	a copy of each prior art document c	ited in this	report.	
The international state of this Authority (Rul	ess otherwise indicated under this it search was carried out on the basis e 23.1(b)).	em. of a transl	sis of the international application in the ation of the international application furnished to in the international application, see Box No. I.	0
2. Certain claims were four	nd unsearchable (See Box II).			
3. Unity of invention is lack	ting (see Box III).			
4. With regard to the title,				
X the text is approved as sul	omitted by the applicant.	,		
the text has been establish	ned by this Authority to read as follo	ws:	DOCKETED	-
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		1.	RECEIVED: 11/35/57	
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		1	DUE: 12/30/05	
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5. With regard to the abstract,			BY: OM	
X the text is approved as sub	mitted by the applicant.	į		
the text has been establish	ed, according to Rule 38.2(b), by the	is Authorit	y as it appears in Box No. IV. The applicant	
may, within one month from	n the date of mailing of this internat	onal searc	ch report, submit comments to this Authority.	
With regards to the drawings,				
a. the figure of the drawings to be pu	ublished with the abstract is Figure I	۷o. <u>6</u>		
X as suggested by the		,		
	Authority, because the applicant fa	iled to sug	gest a figure.	
	Authority, because this figure bette	_	- •	
	published with the abstract.			_
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INTERNATIONAL SEARCH REPORT

rnational Application No

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER H04L27/26 H04L1/06		
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According to	International Patent Classification (IPC) or to both national classification	ation and IPC	
B. FIELDS			
Minimum do IPC 7	cumentation searched (classification system followed by classification $H04L$	on symbols)	
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Documentati	on searched other than minimum documentation to the extent that s	uch documents are included in the fields se	arched
Electronic da	ata base consulted during the international search (name of data base	se and where practical search terms used	
•	ternal, INSPEC	e and, whole practical, search terms used,	
C. DOCUME	NTS CONSIDERED TO BE RELEVANT	,	
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.
Х	SUMEI SUN; WIEMER I; HO C K; TJHU "Training sequence assisted channestimation for MIMO OFDM"		1-26
	WCNC 2003 - IEEE WIRELESS COMMUNI AND NETWORKING CONFERENCE,	·	
	vol. 1, 16 March 2003 (2003-03-16 38-43, XP002304707 NEW ORLEANS, LA, USA	o), pages	-
,	the whole document		27-30
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χ Furth	er documents are listed in the continuation of box C.	Patent family members are listed in	n annex.
° Special cat	egories of cited documents :	*T* later document published after the inter	
conside	nt defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	
filing da	ate	"X" document of particular relevance; the cl cannot be considered novel or cannot	be considered to
which i	nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified)	involve an inventive step when the doc "Y" document of particular relevance; the cl cannot be considered to involve an inv	aimed invention
other n		document is combined with one or mo ments, such combination being obviou	re other such docu-
	nt published prior to the international filing date but an the priority date claimed	in the art. '&' document member of the same patent t	amily
Date of the a	actual completion of the international search	Date of mailing of the international sear	rch report
2:	November 2004	29/11/2004	
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Yang, Y	

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INTERNATIONAL SEARCH REPORT

rnational Application No PCT/US2004/021027

	citation of document, with indication, where constraints of the selection	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MYEONGCHEOL SHIN ET AL: "A new training symbol structure to enhance the performance of channel estimation for mimo-ofdm systems" 2003 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. PROCEEDINGS. (ICASSP). HONG KONG, APRIL 6 - 10, 2003, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP), NEW YORK, NY: IEEE,	1-30
	US, vol. VOL. 1 OF 6, 6 April 2003 (2003-04-06), pages IV397-IV400, XP010641180 ISBN: 0-7803-7663-3 the whole document	
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